

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	((develop\$3 near5 roller) and (base or body or tube or pipe or mandrel) and (flange) and (metal or steel or aluminum) and (surface or circumference or outside or inside) and (groove or thread or ridge or rough\$4) and (((maximum near roughness) OR "Ry" or roughness or Rmax) with ("25" or "26" or "27" or "27" or "28" or "29" or "3"\$1 or "4"\$1 or "5"\$1 or "6"\$1 or "70") with (".mu.m" or micrometer or micro \$meter))).clm.	US-PGPUB	OR	ON	2008/08/18 08:56
L23	0	((develop\$3 near5 roller) and (base or body or tube or pipe or mandrel) and (metal or steel or aluminum) and ((carbon near steel) same ((percent near4 weight) or "percent/weight" or "percent/wt" or ("% " near weight) or "%/wt" or "%"\$weight or "%"\$wt or percent \$wt or percent\$weight) same silicon same carbon same manganese)).clm.	US-PGPUB	OR	ON	2008/08/18 09:26
L28	0	((develop\$3 near5 roller) and (base or body or tube or pipe or mandrel) and (metal or steel or aluminum) and ((carbon near steel) and ((percent near4 weight) or "percent/weight" or "percent/wt" or ("% " near weight) or "%/wt" or "%"\$weight or "%"\$wt or percent\$wt or percent\$weight) and silicon same carbon same manganese)).clm.	US-PGPUB	OR	ON	2008/08/18 09:37

L29	0	((develop\$3 near5 roller) and (base or body or tube or pipe or mandrel) and (metal or steel or aluminum) and ((carbon near steel) and ((percent near4 weight) or "percent/weight" or "percent/wt" or ("% near weight) or "%/wt" or "%\$weight or "%\$wt or percent\$wt or percent\$weight) and silicon and carbon and manganese)).clm.	US-PGPUB	OR	ON	2008/08/18 09:38
L30	0	((develop\$3 near5 roller) and (base or body or tube or pipe or mandrel) and (metal or steel or aluminum) and ((carbon near steel) and (percent or ".percent." or ".%.") and silicon and carbon and manganese)).clm.	US-PGPUB	OR	ON	2008/08/18 09:39
L31	1	((develop\$3 near5 roller) and (base or body or tube or pipe or mandrel) and (metal or steel or aluminum) and ((carbon near steel) and (weight) and silicon and carbon and manganese)).clm.	US-PGPUB	OR	ON	2008/08/18 09:39
L32	1	((develop\$3 near5 roller) and (base or body or tube or pipe or mandrel) and (metal or steel or aluminum) and (("STKM11A" with carbon with steel) or "STKM11A" or "JIS G3445"))).clm.	US-PGPUB	OR	ON	2008/08/18 09:40
S1	1	10/567062	US-PGPUB	OR	ON	2008/08/14 08:11
S2	13	("11249416" "2003091198" "2001125370" "60143605" "2003263019" "07261438" "02054287" "2004109525" "57086869" "08074839" "2001221227" "08184977" "11216621").pn.	JPO	OR	ON	2008/08/14 08:30

S3	111	(Toshio.in. near Tsubota.in.) (shinji.in. near matsuzawa.in.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 08:32
S4	570	((maximum near roughness) OR "Ry") with ("25" or "26" or "27" or "27" or "28" or "29" or "3"\$1 or "4"\$1 or "5"\$1 or "6"\$1 or "70") with (".mu.m" or micrometer or micro \$meter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 08:35
S5	1316	((press\$fit\$4 or (press near fit\$4)) same (groove with (cut or cutting or etch\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 08:44
S6	2430	(anaerobic near\$5 adhesive)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 08:45
S7	212081	(thickness or thick) with (("0.75" "0.76" "0.77" "0.78" "0.79" "0.8"\$1 "0.9"\$1 "1" "1."\$2 "2" "2.0" "2.00") near (mm or millimeter or milli \$meter))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 08:54
S8	1	((thickness or thick) with (("0.75" "0.76" "0.77" "0.78" "0.79" "0.8"\$1 "0.9"\$1 "1" "1."\$2 "2" "2.0" "2.00") near (mm or millimeter or milli\$meter))) and S5 and ((interference or interfere\$3 or overlap \$4) with ("10" "1"\$1 "2"\$1 "3"\$1 "4"\$1 "5"\$1 "60") with (".mu.m" or micrometer or micro \$meter))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 08:58

S9	31	((thickness or thick) with (("0.75" "0.76" "0.77" "0.78" "0.79" "0.8"\$1 "0.9"\$1 "1" "1."\$2 "2" "2.0" "2.00") near (mm or millimeter or milli\$meter))) and (press\$fit\$4 or (press near fit\$4)) and ((interference or interfere\$3 or overlap \$4) with ("10" "1"\$1 "2"\$1 "3"\$1 "4"\$1 "5"\$1 "60") with (".mu.m" or micrometer or micro \$meter))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 09:00
S10	324	(carbon near steel) same (percent or "%.%.") same (weight) same silicon same carbon same manganese	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 09:24
S11	32	((("STKM11A" with carbon with steel) or "STKM11A" or "JIS G3445"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 09:27
S12	574	(electro\$resistance\$weld \$3) or (electro \$resistance near weld \$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 09:28
S13	94634	((cut or cutting or polish \$3) near (process\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 09:29
S14	12	((cut or cutting or polish \$3) near (process\$3)) and (blast\$3) and ((metal near\$5 plat\$3) or (nickel near\$5 plat\$3)) and (chromate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 09:30

S15	2654	((straightness or straight \$3) with ("1" "2" "3" "4" "5" "6" "7" "8" "9" "10" "11" "12" "13" "14" "15" "1."\$2 "2."\$2 "3."\$2 "4."\$2 "5."\$2 "6."\$2 "7."\$2 "8."\$2 "9."\$2 "10."\$2 "11."\$2 "12."\$2 "13."\$2 "14."\$2 "15.0" "15.00") with (".mu.m" or micrometer or micro \$meter))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 09:34
S16	246	(carbon near steel) same ((percent near4 weight) or "percent/weight" or "percent/wt" or (".percent." near weight) or ".percent./wt" or ".percent."\$weight or ".percent."\$wt or percent \$wt or percent\$weight) same silicon same carbon same manganese	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 09:49
S17	5790	((deflect\$3 or bend\$3 or ((deflect\$3 or bend\$3) near accuracy)) with ("1" "2" "3" "4" "5" "6" "7" "8" "9" "10" "11" "12" "13" "14" "15" "16" "17" "18" "19" "20" "1."\$2 "2."\$2 "3."\$2 "4."\$2 "5."\$2 "6."\$2 "7."\$2 "8."\$2 "9."\$2 "10."\$2 "11."\$2 "12."\$2 "13."\$2 "14."\$2 "15."\$2 "16."\$2 "17."\$2 "18."\$2 "19."\$2 "20.0" "20.00") with (".mu.m" or micrometer or micro \$meter))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 09:49
S18	3542	((non near magnetic) or non\$magnetic) with ((one near component) or one\$component) with (developer or toner)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 09:50

S19	327	(carbon near steel) same ((percent near4 weight) or "percent/ weight" or "percent/wt" or ("% near weight) or "%/wt" or "%\$weight or "%\$wt or percent \$wt or percent\$weight) same silicon same carbon same manganese	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 09:57
S20	3	S3 and (S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S14 S19)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 10:26
S21	111	S3 or S20	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 10:26
S22	0	(S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S14 S19)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2008/08/14 10:26
S23	0	(399/279,286).pn.	US-PGPUB; USPAT	OR	ON	2008/08/14 10:49
S24	518	(399/279,286).ccls.	US-PGPUB; USPAT	OR	ON	2008/08/14 10:49
S25	182	S24 and (S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S14 S19)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 10:49
S26	518	S24 or S25	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 10:50
S27	0	(develop\$3 near roller) same (pipe) same flange same (press\$fit\$4 or (press near fit\$4)) and (carbon near steel) and silicon and manganese and (carbon not (carbon near steel))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 13:39

S28	0	(develop\$3 near roller) and (pipe) and flange and (press\$fit\$4 or (press near fit\$4)) and (carbon near steel) and silicon and manganese and (carbon not (carbon near steel))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 13:39
S29	0	(develop\$3 near roller) same (pipe) same flange same (press\$fit\$4 or (press near fit\$4)) and (carbon near steel) and silicon and manganese and (carbon)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 13:40
S30	1	(develop\$3 near roller) and (pipe) and flange and (press\$fit\$4 or (press near fit\$4)) and (carbon near steel) and silicon and manganese and (carbon)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 13:40
S31	2	(develop\$3 near roller) same (base or mandrel or support) same flange same (press\$fit\$4 or (press near fit\$4)) and (carbon near steel) and silicon and manganese and (carbon)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 13:42
S32	16	(develop\$3 near roller) same (pipe or base or mandrel or support) same flange same (press\$fit\$4 or (press near fit\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 13:43
S33	1	(roller) same (pipe or base or mandrel or support) same flange same (press\$fit\$4 or (press near fit\$4)) and S19 and S4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 13:53
S34	1	((roller) same (pipe or base or mandrel or support) same flange same (press\$fit\$4 or (press near fit\$4))) and S19 and S4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 13:54
S35	1	((roller) same (pipe or base or mandrel or support) same flange same (press\$fit\$4 or (press near fit\$4))) and S4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 13:54

S36	1	(roller) same (pipe or base or mandrel or support) same flange same (press\$fit\$4 or (press near fit\$4)) and S19	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 13:55
S37	1	((roller) and (pipe or base or mandrel or support) and flange same (press\$fit\$4 or (press near fit\$4))) and S19 and S4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 13:56
S38	1	((roller) and flange same (press\$fit\$4 or (press near fit\$4))) and S19 and S4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 14:00
S39	1	((roller) and flange and (press\$fit\$4 or (press near fit\$4))) and S19 and S4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 14:01
S40	1	((roller) and flange and (press\$fit\$4 or (press near fit\$4))) and S4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 14:01
S41	34	((roller) and flange and (press\$fit\$4 or (press near fit\$4))) and (((maximum near roughness) OR roughness or "Ry") with ("25" or "26" or "27" or "27" or "28" or "29" or "3"\$1 or "4"\$1 or "5"\$1 or "6"\$1 or "70") with ("mu.m" or micrometer or micro\$meter))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 14:02
S42	4	((roller) and ((press\$fit\$4 or (press near fit\$4))) same (((maximum near roughness) OR roughness or "Ry") with ("25" or "26" or "27" or "27" or "28" or "29" or "3"\$1 or "4"\$1 or "5"\$1 or "6"\$1 or "70") with ("mu.m" or micrometer or micro\$meter)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 14:44



S43	83	((roller) and ((press\$fit\$4 or (press near fit\$4))) and (((maximum near roughness) OR roughness or "Ry") with ("25" or "26" or "27" or "27" or "28" or "29" or "3"\$1 or "4"\$1 or "5"\$1 or "6"\$1 or "70") with (.mu.m" or micrometer or micro\$meter)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 14:48
S44	49	S43 NOT S41	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 14:52
S45	14666	((roller or tube or pipe) and ((press\$fit\$4 or (press near fit\$4))) same (groove or thread))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 15:19
S46	7447	((roller or tube or pipe) and flange and ((press\$fit\$4 or (press near fit\$4))) same (groove or thread))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 15:19
S47	4091	((roller) and flange and ((press\$fit\$4 or (press near fit\$4))) same (groove or thread or screw\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 15:21
S48	1980	((roller) and (flange same (press\$fit\$4 or (press near fit\$4))) same (groove or thread or screw\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 15:21
S49	169	("399".clas. or g03g\$.ipc. or "29".clas. or "492".clas.) and (((roller) and (flange same (press\$fit\$4 or (press near fit\$4))) same (groove or thread or screw\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 15:24
S50	404	((roller) and ((press\$fit\$4 or (press near fit\$4))) same (flange near6 (groove or thread or screw\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 15:30

S51	42	("399".clas. or g03g\$. ipc. or "29".clas. or "492".clas.) and S50	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 15:36
S52	104	((roller same metal) and ((press\$fit\$4 or (press near fit\$4))) same (flange near6 (groove or thread or screw\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 15:57
S53	141	((roller same (metal or steel or aluminum)) and ((press\$fit\$4 or (press near fit\$4))) same (flange near6 (groove or thread or screw\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 15:58
S54	124	S53 not S51	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 15:58
S55	55	((roller with (metal or steel or aluminum)) and ((press\$fit\$4 or (press near fit\$4))) same (flange near6 (groove or thread or screw\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 15:59
S56	43	S55 not S51	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 15:59
S57	1	((roller) near5 (develop \$3)) and S19	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 16:03
S58	0	((roller) same (body or support or pipe or tube or mandrel) same S19)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 16:04
S59	7	((roller) same (body or support or pipe or tube or mandrel)) and S19	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 16:05

S60	3	(roller) and S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 16:08
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